

DISTILLATION OF PETROLEUM PRODUCTS

Test Method

The sample is evaporated and condensed under controlled conditions, and observations are made of the temperatures at which various percentages are recovered and/or the percentages recovered at specified temperatures.

Front View Distillation Apparatus

- Conforms to ASTM D86, E133 and related ASTM and international standards
- Choice of three different models

Front View Distillation Apparatus, Groups 1, 2 and 3—Meets all ASTM and related specifications for distillation of motor and aviation gasolines, aviation turbine fuels, naphthas, kerosenes, distillate fuels, natural gasoline, liquid hydrocarbon mixtures and other petroleum products. Consists of fully insulated stainless steel condenser and heater units. Heater unit includes flask support platform, viewing window, 1250W heater with stepless variable control, and rack and pinion heater elevation mechanism with push-turn control knob. *Please inquire about higher wattage heaters.* White receiving flask background facilitates viewing of fractions during test. Available with right-hand or left-hand heater unit for convenient pairing. Includes graduate support block and flask support boards.

Group 4 Front View Distillation Apparatus—Front View Distillation apparatus designed for testing of Grade No. 2 fuel oil, Grade No. 2-D diesel fuel oil, gas oils and other distillates requiring condenser bath temperatures of up to 140°F (60°C). Also suitable for gasolines, aviation turbine fuels, naphthas, kerosenes and other liquid petroleum products. Similar in features and construction to the standard Front View Distillation Apparatus, but equipped with a 300W copper immersion condenser heater with stepless electronic control. Available with right or left-hand heater unit. *Note: The Group 4 Apparatus can also run distillations for petroleum products categorized as Groups 1, 2 and 3.*

Specifications

Conforms to the specifications of:
 ASTM D86, D216, D233, D447,
 D850, D1078, E133; IP 123, 195;
 ISO 3405; DIN 51751; FTM 791-
 1001, 791-1015; NF M 07-002

Electrical Requirements: **CE**
 115V 60Hz
 220-240V 50/60Hz

Included Accessories

Flask Support Boards A and C
 Graduate Cylinder Support Block

Shipping Information

Shipping Weight: 65 lbs (29.5kg)
 Dimensions: 13.3 Cu. ft.

Dimensions l x w x h, in. (cm)

15½ x 18½ x 19½ (39 x 46 x 50)



K45090 Front View Distillation Apparatus

Ordering Information

Catalog No.

Front View Distillation Apparatus

K45000	Right-Hand Model, 115V 60Hz
K45100	Left-Hand Model, 115V 60Hz
K45090	Right-Hand Model, 220-240V 50/60Hz
K45190	Left-Hand Model, 220-240V 50/60Hz

Group 4 Front View Distillation Apparatus

K45200	Right-Hand Model, 115V 60Hz
K45300	Left-Hand Model, 115V 60Hz
K45290	Right-Hand Model, 220-240V 50/60Hz
K45390	Left-Hand Model, 220-240V 50/60Hz

ASTM Distillation Thermometers

Catalog No.	Thermometer	Range
250-000-02C	ASTM 2C Partial Immersion	-5 to +300°C
250-000-07F	ASTM 7F Low Distillation	30 to 580°F
250-000-07C	ASTM 7C Low Distillation	-2 to +300°C
250-000-08F	ASTM 8F High Distillation	30 to 760°F
250-000-08C	ASTM 8C High Distillation	-2 to +400°C
250-000-37C	ASTM 37C Solvents Distillation	-2 to +52°C
250-000-38C	ASTM 38C Solvents Distillation	24 to 78°C
250-000-39C	ASTM 39C Solvents Distillation	48 to 102°C
250-000-40C	ASTM 40C Solvents Distillation	72 to 126°C
250-000-41C	ASTM 41C Solvents Distillation	98 to 152°C
250-000-42C	ASTM 42C Solvents Distillation	95 to 255°C
250-000-102C	ASTM 102C Solvents Distillation	123 to 177°C
250-000-103C	ASTM 103C Solvents Distillation	148 to 202°C
250-000-104C	ASTM 104C Solvents Distillation	173 to 227°C
250-000-105C	ASTM 105C Solvents Distillation	198 to 252°C
250-000-106C	ASTM 106C Solvents Distillation	223 to 277°C
250-000-107C	ASTM 107C Solvents Distillation	248 to 302°C

Accessories

Catalog No.	Type	Capacity, mL
Flasks		
332-003-006	A	100
332-003-001	B	125
332-003-002	C	200
332-003-005	D	250
Graduates		
332-002-013	A	25
332-002-003	B	100
332-002-014	C	200
Flask Support Boards		
K45410	A	1¼" (3.18)
K45420	B	1½" (3.81)
K45430	C	2" (5.1)
K45440	D	2¾" (6.98)
Miscellaneous		
K45540	Receiver Cooling Bath Jar	
334-002-001	Top Silicone Plug, For Type A, B, & D Flasks	pk/10
334-002-002	Side Silicone Plug	pk/10
334-002-003	Top Silicone Plug, For Type C Flask	pk/10

For NIST traceable certified thermometers, please refer to the ASTM Thermometer section on pages 184 through 191.